



**CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY**

Name(s) Kelsey C. Paulus	Project Number S0315
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Project Title Is Your Kitchen As Clean As You Think It Is?

<p style="text-align: center;">Abstract</p> <p>Objectives/Goals Seven different kitchens were tested to see if they were perceived to be clean and if they were actually clean. Eight different surfaces were tested. Petri dishes were inoculated and incubated for eleven days. Results show that a persons perception of how clean their kitchen is does not match how clean their kitchen actually is.</p> <p>Methods/Materials Introduction: Sample: Kitchens. Independent Variable: Perception of cleanliness. Dependant Variable: Amount of harmful bacteria. Control: Test the same surfaces in each kitchen.</p> <p>Materials: Mackonkey agar plates, sterile swabs, camera, scotch tape, a white background and an assistant.</p> <p>Methods: 1. Obtain materials. 2. Find 7 participants who are willing to let you test their kitchen for bacteria and are willing to cook a meal and clean between testings. 3. Create a form for the participants to sign that indicates their perception of how clean their kitchen is, for each testing that is preformed. 4. Have the participant sign the form. 5. Swab the pre-selected surfaces without the participants knowledge of what these surfaces are. 6. Label the petri dishes in order to identify the participants house and surface. (i.e. House 1 Surface A) 7. Have the participant cook and clean his/her kitchen as he/she normally would. 8. The participant, after cooking and cleaning, will sign another form stating his/her perception of how clean his/her kitchen is.</p> <p>Results Results show that a person's perception of how clean their kitchen is does not match how clean their kitchen actually is.</p> <p>Conclusions/Discussion Results show that a person's perception of how clean their kitchen is does not match how clean their kitchen actually is. This can help others realize that they need to clean smaller surfaces along with bigger surfaces. Their perception might be good, but that does not mean that their kitchen is actually clean.</p>

Summary Statement Is a person's perception of a clean kitchen (free from harmful bacteria) really clean?
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Help Received I would like to thank the Lord for giving me the idea for this project and for helping me persevere through it. Thanks mom for helping me by driving me, assisting me and helping me with anything else that was involved in this project. Thanks dad for supporting me, driving me to all of the different houses and for
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